



Micro-transit Pilot Program

December 20, 2022

Project Purpose

- Develop a **long-term strategy** for enhancing passenger public transportation services in the City of Broken Arrow
- Develop **the path forward** to implementing the passenger transportation vision



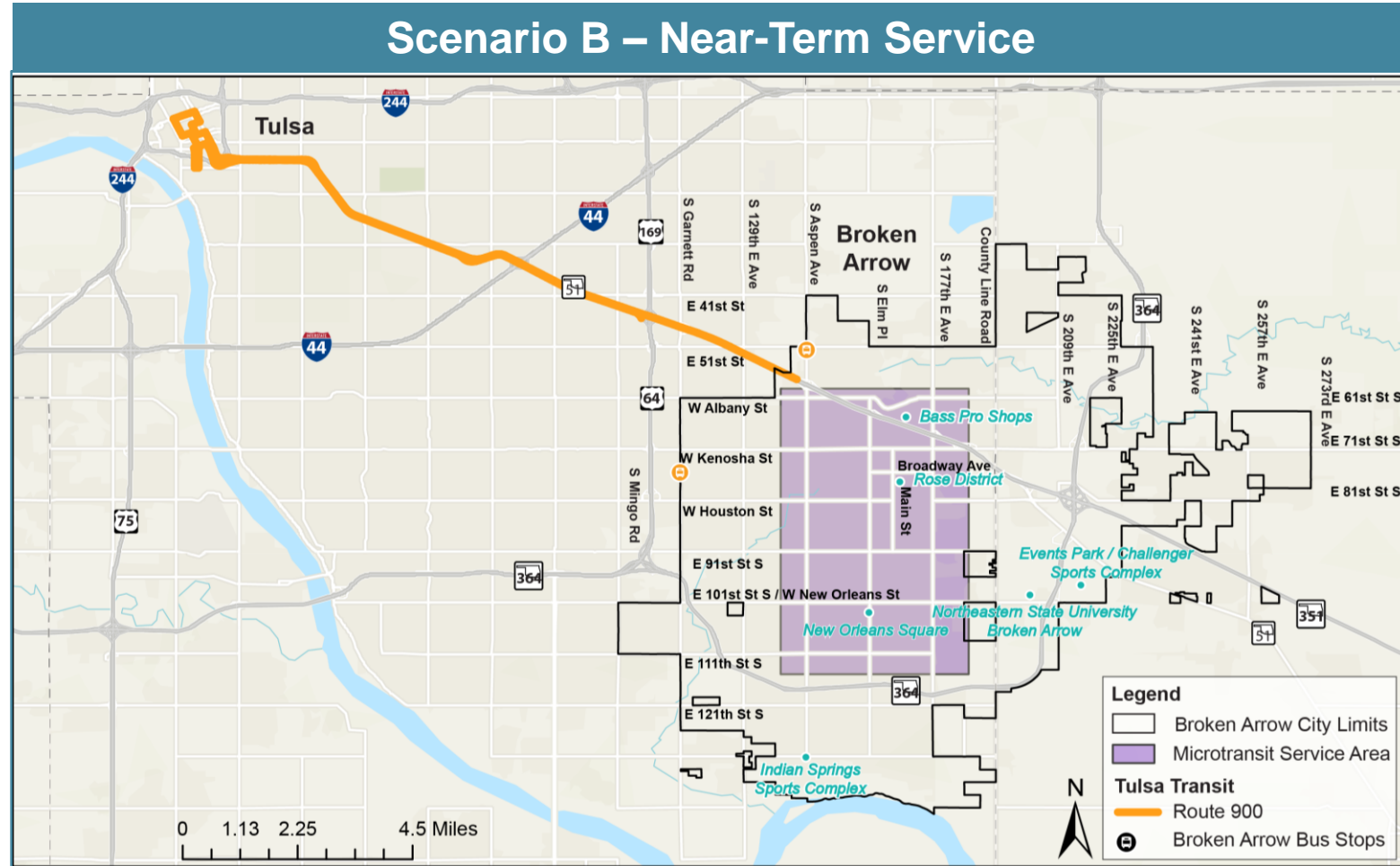
Recommended Near-Term Scenario

- **Microtransit Pilot Program**

- 6-month program serving the City's core
- Service area is flexible to adapt to demand and funding
- Private company provider to own vehicles and operate service

- **Regional Express Bus Service**

- Reverse commute trips during peak commuter periods
- Local Transit Authority to own vehicles and operate service



Recommended Long-Term Scenario

- **Microtransit Pilot Program**

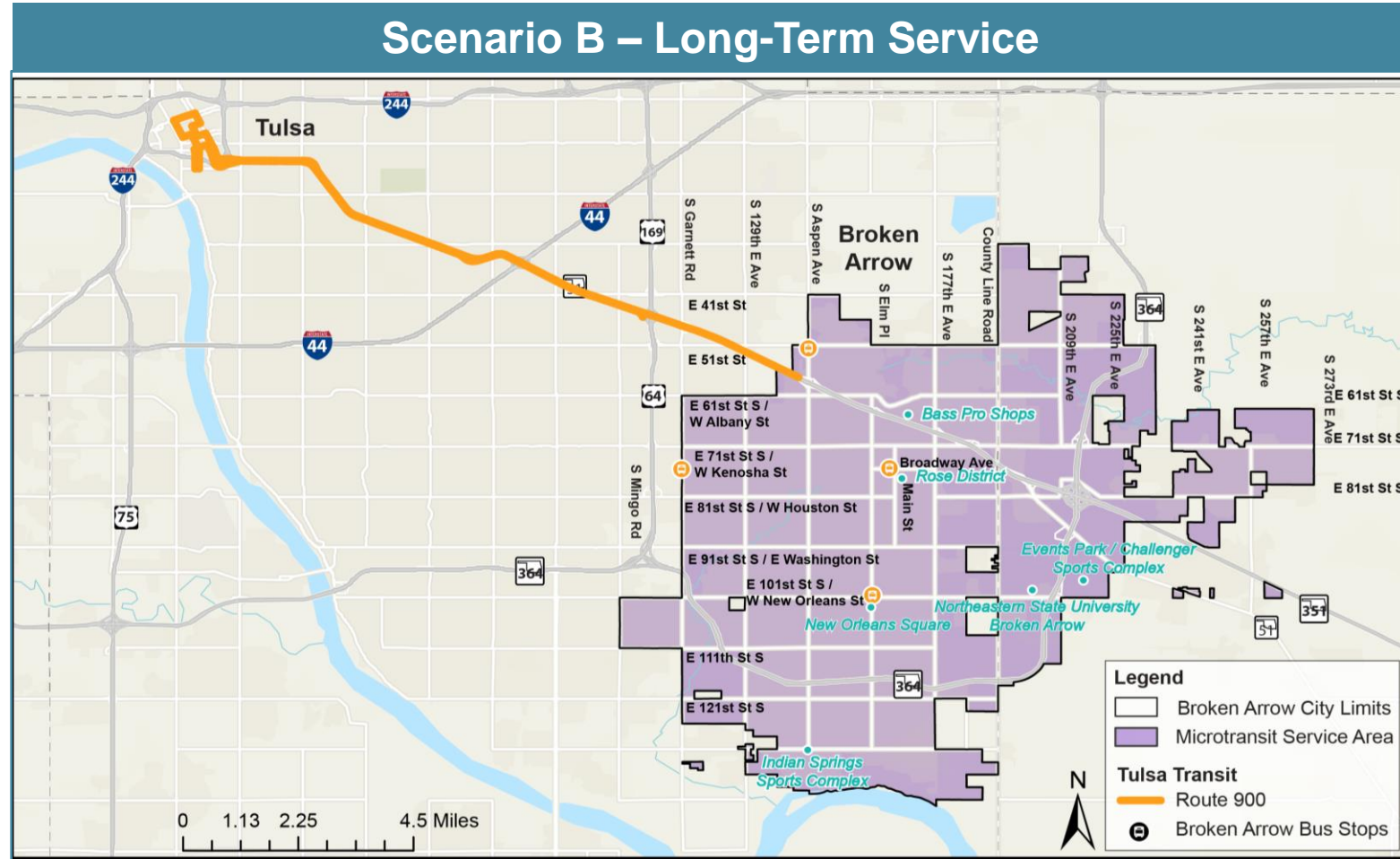
- Service area expanded to citywide coverage
- Private company provider to own vehicles and operate service

- **Regional Express Bus Service**

- Higher frequency during peak periods
- Additional pick-up and drop-off locations
- Local Transit Authority to own vehicles and operate service

- **Local Fixed Route Service**

- Route to be determined by pilot program's observed travel patterns



Proposed Vehicles

- Chevrolet Bolt EUV



- Tesla X



Proposed Vehicles – Ease of Use

- Chevrolet Bolt EUV



- Tesla X



Capital Cost

Chevrolet Bolt EUV	Tesla X
Miles: 247	Miles: 333
Unit Cost: \$28,425.00	Unit Cost: \$123,940
Pilot Cost (3 Units): \$85,275	Pilot Cost (3 Units): \$371,820
Long-Term (5 Units): \$142,125	Long-Term (5 Units): \$619,700
Equipment:	Equipment:
Charging Stations:	Miles: 333
Unit Cost: \$1,000	Unit Cost: \$1,200
Pilot Cost (6 Units): \$6,000	Pilot Cost (6 Units): \$7,200
Long-Term (10 Units): \$10,000	Long-Term (10 Units): \$12,000

CMAQ Grant: \$700,000

Operational Cost – Pilot

FY2023 Services	Service Hours	# of Vehicles in-service	Annual Service Hours
Route 900	448	1	448
Route 508	1,623	1	1,623
On-demand, Microtransit	2,340	2	4,680
Total Estimated Annual Rev. Service Hours			6,751
Rate: \$ per Revenue Service Hour			(\$55.00)
Sub-Total (\$55.00 Per Service Hour)			\$ (371,305.00)
Tech			\$200
Annual			60
Sub-Total \$			12,000.00
Estimated Cost			\$ (359,305.00)
Broken Arrow Budget			\$ 330,000.00
To be budgeted			\$ (29,305.00)

Operational Cost – Long-Term

FY2023 Services	Service Hours	# of Vehicles in-service	Annual Service Hours
Route 900	448	1	448
Route 508	1,623	0	-
On-demand, Microtransit	2,340	4	9,360
Total Estimated Annual Rev. Service Hours			9,808

Rate: \$ per Revenue Service Hour **(\$55.00)**

Sub-Total (\$55.00 Per Service Hour) \$ (539,440.00)

Tech **\$200**

Annual 60

Sub-Total \$ 12,000.00

Estimated Cost \$ (527,440.00)

Broken Arrow Budget \$ 330,000.00

To be budgeted \$ (197,440.00)

- Rose District



Questions? Comments?